

WHAT IS CLAIMED IS:

1. A method for setting a common channel for a packet data service
5 by an SRNC (Serving Radio Network Controller) to a UE (User Equipment)
through a Node B and a DRNC (Drift Radio Network Controller) when the UE is
handed over from a first Node B to a second Node B as the UE moves to the
second Node B, in a mobile communication system including the UE, the first
Node B providing the packet data service to the UE, the SRNC connected to the
10 first Node B, a CN (Core Network) connected to the SRNC, and the DRNC
connected the second Node B neighboring the first Node B and also connected to
the SRNC, wherein the CN has bit rate information for the packet data service
and transmits the bit rate information to the SRNC, and the SRNC stores the bit
rate information, the method comprising the steps of:
15 transmitting service parameters including the bit rate information for the
packet data service to the DRNC;

receiving information on a common channel determined based on the
service parameters from the DRNC; and
transmitting information on the determined common channel to the UE
20 through the DRNC and the second Node B, to allocate the determined common
channel to the UE.

2. The method as claimed in claim 1, wherein the bit rate
information includes a maximum bit rate and a guaranteed bit rate.
25

3. The method as claimed in claim 1, wherein the common channel
is one of a common packet channel (CPCH), a random access channel (RACH)
and a forward access channel (FACH).

30 4. A method for setting a common channel for a packet data service

by an SRNC (Serving Radio Network Controller) to a UE (User Equipment) through a Node B and a DRNC (Drift Radio Network Controller) when the UE is handed over from a first Node B to a second Node B as the UE moves to the second Node B, in a mobile communication system including the UE, the first
5 Node B providing the packet data service to the UE, the SRNC connected to the first Node B, a CN (Core Network) connected to the SRNC, and the DRNC connected to the second Node B neighboring the first Node B and also connected to the SRNC, wherein the CN has bit rate information for the packet data service and transmits the bit rate information to the SRNC, and the SRNC stores the bit
10 rate information, the method comprising the steps of:

transmitting service parameters including bit rate information for the packet data service to the DRNC using an RNSAP (Radio Network Subsystem Application Part) message;

15 receiving information on a common channel determined based on the service parameters through an RNSAP response message from the DRNC; and

transmitting the determined common channel information to the UE through a radio resource control message, to allocate the determined common channel to the UE.

20 5. The method as claimed in claim 4, wherein the RNSAP message includes a common transport channel resources request message.

6. The method as claimed in claim 4, wherein the RNSAP response message includes a common transport channel resources response message.

25

7. The method as claimed in claim 4, wherein the bit rate information includes a maximum bit rate and a guaranteed bit rate.

8. The method as claimed in claim 4, wherein the common channel
30 is one of a common packet channel (CPCH), a random access channel (RACH),

and a forward access channel (FACH).

9. A method for setting a common channel for a packet data service by an SRNC (Serving Radio Network Controller) to a UE (User Equipment)
5 through a Node B and a DRNC (Drift Radio Network Controller) when the UE is handed over from a first Node B to a second Node B as the UE moves to the second Node B, in a mobile communication system including the UE, the first Node B providing the packet data service to the UE, the SRNC connected to the first Node B, a CN (Core Network) connected to the SRNC, and the DRNC
10 connected the second Node B neighboring the first Node B and also connected to the SRNC, wherein the CN has bit rate information for the packet data service and transmits the bit rate information to the SRNC, and the SRNC stores the bit rate information, the method comprising the steps of:

determining service parameters including the bit rate information for the
15 packet data service, determining a type of a common channel for transmitting packet data according to the determined service parameters, and then transmitting the determined service parameters and the determined common channel type to the DRNC;

receiving information on the common channel determined based on the
20 service parameters and the common channel type from the DRNC; and

transmitting the received common channel information to the UE through the DRNC and the second Node B, to allocate the determined common channel to the UE.

25 10. The method as claimed in claim 9, wherein the bit rate information includes a maximum bit rate and a guaranteed bit rate.

11. The method as claimed in claim 9, further comprising the steps of:
of:
30 upon receiving the service parameters and the common channel type

from the SRNC, determining by the DRNC whether the received common channel type represents a random access channel (RACH);

determining a physical random access channel (PRACH) based on the service parameters, when the common channel type represents the random access
5 channel; and

transmitting information on the determined physical random access channel and the determined random access channel as the common channel information to the SRNC.

10 12. The method as claimed in claim 9, further comprising the steps of:

determining by the DRNC a common packet channel (CPCH) set according to the service parameters, when the common channel type represents a common packet channel; and

15 transmitting information on the determined CPCH set and an ID (Identification) of the determined CPCH set as the common channel information to the SRNC.

DRAFT DRAFT DRAFT